

Traumatic Brain Injury -- Fatalities

2009

MASSACHUSETTS RESIDENTS

| INJURY CAUSE | INJURY INTENT | | | | | Total Number | Percent of Total | Crude Rate per 100,000 ² |
|--------------------------------------|--------------------|-------------|------------|-------------------|-------------------------------|-----------------|---------------------|---|
| | Uninten- tional | Intentional | | Undeter- mined | Other & Legal ¹ | | | |
| | | Suicide | Homicide | | | | | |
| Cut/pierce | 1 | 0 | 4 | 0 | 0 | 5 | 0.7 | 0.1 |
| Drowning/submersion | 1 | 0 | 0 | 0 | | 1 | 0.1 | -- |
| Fall | 294 | 9 | 1 | 2 | | 306 | 40.0 | 4.6 |
| Fire/burn | 1 | 0 | 0 | 0 | | 1 | 0.1 | -- |
| Firearms | 0 | 75 | 48 | 3 | 0 | 126 | 16.5 | 1.9 |
| Machinery | 3 | | | | | 3 | 0.4 | -- |
| Natural/environmental | 0 | | | | | 0 | 0.0 | 0.0 |
| Poisoning | 7 | 0 | 0 | 0 | 0 | 7 | 0.9 | 0.1 |
| Struck by, against | 7 | 0 | 3 | 0 | 0 | 10 | 1.3 | 0.2 |
| Suffocation/hanging | 2 | 0 | 0 | 0 | | 2 | 0.3 | -- |
| Transport Injuries: | 227 | 0 | 1 | 1 | 0 | 229 | 29.9 | 3.5 |
| <i>Motor vehicle traffic-related</i> | 195 | | | | | 195 | 25.5 | 3.0 |
| <i>Occupant</i> | 14 | | | | | 14 | 1.8 | 0.2 |
| <i>Motorcyclist</i> | 32 | | | | | 32 | 4.2 | 0.5 |
| <i>Pedal cyclist</i> | 4 | | | | | 4 | 0.5 | -- |
| <i>Pedestrian</i> | 41 | | | | | 41 | 5.4 | 0.6 |
| <i>Other person</i> | 0 | | | | | 0 | 0.0 | 0.0 |
| <i>Unspecified person</i> | 104 | | | | | 104 | 13.6 | 1.6 |
| <i>Pedal cyclist, other</i> | 6 | | | | | 6 | 0.8 | 0.1 |
| <i>Pedestrian, other</i> | 7 | | | | | 7 | 0.9 | 0.1 |
| <i>Other land transport</i> | 16 | 0 | 1 | 1 | 0 | 18 | 2.4 | 0.3 |
| <i>Other transport</i> | 3 | | | | | 3 | 0.4 | -- |
| Other specified & classifiable | 6 | 7 | 0 | 0 | 0 | 13 | 1.7 | 0.2 |
| Other specified, not classifiable | 4 | 2 | 2 | 1 | 1 | 10 | 1.3 | 0.2 |
| Unspecified | 27 | 2 | 7 | 15 | 0 | 51 | 6.7 | 0.8 |
| <i>No cause or intent provided</i> | | | | | | 1 | 0.1 | -- |
| TOTALS | 580 | 95 | 66 | 22 | 1 | 765 | 100.0 | 11.6 |
| RATE BY INTENT/per 100,000 | 8.8 | 1.4 | 1.0 | 0.3 | -- | | | |

Source: Registry of Vital Records and Statistics, Massachusetts Department of Public Health.

¹ Legal Intervention includes fatalities resulting from police actions and operations of war.

² Rates are not calculated on counts of less than five. Rates that are based on counts less than twenty may be unstable. Rates provided here are not age-adjusted and may differ slightly from other department publications.

—An injury-related fatality is defined as any death with an ICD-10 code of U01-U03 or V01-Y89 in the underlying cause field.

—Categories and groupings are based on a modified version of the CDC's "Recommended framework of E-code groupings for presenting injury mortality and morbidity data." This framework does not provide for intentionality for certain cause categories as indicated by gray shading.

—Injury subcategories are italicized.

—Analysis is based on a calendar year (Jan 1 - Dec 31, 2007).

—Massachusetts residents who died in or out-of-state are included in this analysis: non-Massachusetts residents are excluded from the analysis.

—Population data used to calculate rates are based on 2009 population estimates by the US Census Bureau: 6,593,587.

—Beginning in 1999 a new revision of the International Classification of Disease system (ICD-10) was used to code for cause of death. Please note that years prior to 1999 may not be comparable.

—Data were extracted and compiled by the Injury Surveillance Program, Bureau of Health Information, Statistics, Research and Evaluation, MDPH, October 2012.